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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## Listing of Claims:

1. (Currently Amended) A passive infra-red detector comprising:

at least three sub-detectors, each of said at least three sub-detectors being operative to receive infra-red radiation from a corresponding one of at least three sub fields-of-view, each of said at least three sub fields-of-view being exclusively defined by an optical element which does not define any other of said at least three sub fields of view, said at least three sub fields-of-view being angled with respect to each other, adjacent ones of said at least three sub fields-of-view being separated by a gap of no more than 30 degrees and each at least one of said at least three sub fields-of-view heaving at least one of the following characteristies:

a) extending over no more than then-45 degrees in azimuth; and
b) including not more than three azimuthally distributed detection zones; and

signal processing circuitry, operative to receive output signals from said at least three sub detectors and to provide a motion detection output.

(Original) A passive infra-red detector according to claim 1 and wherein said at least three sub fields-of-view are substantially non-overlapping.

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3. (Previously Presented) A passive infra-red detector according to claim 1 and wherein each

said optical element is directed in a corresponding direction, the corresponding directions of said

optical elements of each two of said at least three sub-detectors being different.

4. (Previously Presented) A passive infra-red detector according to claim 1 and wherein said

optical element comprises a non focusing optical element.

5. (Original) A passive infra-red detector according to claim 4 and wherein said non-focusing

optical element comprises a reflective optical element.

6. (Previously Presented) A passive infra-red detector according to claim 1 and wherein said

optical element comprises a focusing element.

7. (Original) A passive infra-red detector according to claim 6 and wherein said focusing

element comprises at least one of a reflective element, a refractive element, a diffractive element

and a cylindrical optical element.

8. (Currently Amended) A passive infra-red detector according to claim 250 1-wherein said

azimuthally distributed detection zones have corresponding divergence angles and said gap has

an angular extent which is less than or equal to twice the largest angular extent of said divergence angles of detection zones of said adjacent ones of said at least three sub fields-of-

view.

9. (Previously Presented) A passive infra-red detector according to claim 1 and wherein said gap

has an angular extent which is less than or equal to a largest azimuthal angle A-2B between any

two adjacent detection zones of said adjacent ones of said at least three sub fields-of-view.

10. (Original) A passive infra-red detector comprising:

at least three sub-detectors, each operative to receive infra-red radiation from a

corresponding one of at least three sub fields-of-view; and

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signal processing circuitry, receiving output signals from at least two of said at

least three sub-detectors and providing a motion detection output in response to receipt of said output signals; noting, within a predetermined first time period, multiple detections by one of

said at least two sub-detectors and the absence of detections by another of said at least two sub-

detectors and being operative to ignore future detections by said one of said at least two sub-

detectors for at least a predetermined second time period.

11. (Original) A passive infra-red detector according to claim 10 and wherein said at least three

sub fields-of-view are substantially non-overlapping.

12. (Previously Presented) A passive infra-red detector according to claim 10 and wherein said

signal processing circuitry is operative to ignore said future detections only in a case where said

multiple detections fulfill predetermined pre-alarm criteria.

13. (Previously Presented) A passive infra-red detector according to claim 10 and wherein said

signal processing circuitry is operative to ignore said future detections only in a case where said

 $multiple\ detections\ fulfill\ predetermined\ alarm\ criteria.$ 

14. (Previously Presented) A passive infra-red detector according to of claim 10 and wherein said signal processing circuitry is operative to extend said predetermined second time period in

response to detections by said one of said at least two sub-detectors during the predetermined

second time period.

15. (Previously Presented) A passive infra-red detector according to claim 1 and wherein said

signal processing circuitry is operative to note a sequence of receipt of said output signals by said

at least three sub-detectors and to provide motion direction output based on said sequence.

16. (Previously Presented) A passive infra-red detector according to claim 1 and wherein said

signal processing circuitry is operative to note a sequence of receipt of said output signals by said

at least three sub-detectors and to provide motion path output information based on said

sequence.

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17. (Previously Presented) A passive infra-red detector according to claim 1 and wherein said

signal processing circuitry is operative to process said output signals according to at least one

predefined criterion.

18. (Original) A passive infra-red detector according to claim 17 and wherein said at least one

predefined criterion comprises whether a time duration between receipt of said output signals from adjacent ones of said at least three sub-detectors lies within a predetermined range of

values.

19. (Currently Amended) A passive infra-red detector according to claim 17 and wherein said

signal processing circuitry is operative to process said output signals according to said at least

one predefined criterion by noting time durations of said output signals from adjacent ones of said at least three sub-detectors and providing said motion detection output at least when a the

ratio between said time durations is within certain limits.

20. (Original) A passive infra-red detector according to claim 19 and wherein said ratio is in the

range of 0.5 to 2.0.

21. (Previously Presented) A passive infra-red detector according to claim 17 and wherein said

signal processing circuitry is operative to process said output signals according to said at least

one predefined criterion by noting a time difference between receipt of said output signals and time durations of said output signals and to provide said motion detection output in response to

receipt of said output signals from at least two adjacent ones of said at least three sub-detectors

having respective time durations and a time difference therebetween, said time durations and said

time difference therebetween having a time relationship therebetween which meets at least one

predetermined criterion.

22. (Original) A passive infra-red detector according to claim 21 and wherein said at least one

predetermined criterion comprises whether a ratio between said time difference and at least one

of said time durations lies within a predetermined range of values.

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23. (Original) A passive infra-red detector according to claim 21 and wherein said at least one

predetermined criterion comprises whether ratios between said time difference and each of said

time durations lie within a predetermined range of values.

24. (Previously Presented) A passive infra-red detector according to claim 22 and wherein said

predetermined range of values is based at least in part on divergence angles of at least two zones of two different ones of said at least three sub fields-of-view corresponding to said at least two

adjacent ones of said at least three sub-detectors.

25. (Previously Presented) A passive infra-red detector according to claim 22 and wherein said

predetermined range of values is based at least in part on an angle between of at least two zones

of two different ones of said at least three sub fields-of-view corresponding to said at least two

adjacent ones of said at least three sub-detectors.

26. (Previously Presented) A passive infra-red detector according to claim 1 and wherein said

passive infra-red detector is operative to receive radiation from a field-of-view having a field-of-

view divergence angle of at least 45 degrees.

27. (Previously Presented) A passive infra-red detector according to claim 1 and wherein at least

one of said at least three sub fields-of-view comprises a single coplanar azimuthally distributed

detection zone.

28. (Previously Presented) A passive infra-red detector according to claim 1 and wherein at least

one of said at least three sub fields-of-view comprises multiple coplanar azimuthally distributed

detection zones

29. (Previously Presented) A passive infra-red detector according to claim 1 and wherein at least

one of said at least three sub fields-of-view comprises a single vertically distributed detection

zone.

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30. (Previously Presented) A passive infra-red detector according to claim 1 and wherein at least

one of said at least three sub fields-of-view comprises multiple vertically distributed detection

zones.

31. (Previously Presented) A passive infra-red detector according to claim 1 and also comprising

a housing formed with an aperture adapted for passage therethrough of infra-red radiation,

wherein said at least three sub fields-of-view intersect generally at an intersection region located at said aperture, and said aperture is generally equal in size to the size of said intersection region.

32. (Original) A passive infra-red detector according to claim 31 and wherein a window

33. (Original) A passive infra-red detector according to claim 32 and wherein a center of said

window is located generally at a center of said aperture.

transparent to infra-red radiation is located adjacent said aperture.

34. (Previously Presented) A passive infra-red detector according to claim 32 and wherein said

window has a circular cross-section.

35. (Previously Presented) A passive infra-red detector according to claim 32 and wherein said

window is generally flat.

36. (Previously Presented) A passive infra-red detector according to claim 32 and wherein said

window is formed of at least one of HDPE, Silicon and Germanium.

37. (Previously Presented) A passive infra-red detector according to claim 32 and also

comprising masking detection functionality for providing an alarm output upon detection of

masking materials obstructing said window.

38. (Previously Presented) A passive infra-red detector according to claim 32 and also

comprising a guard element surrounding said window for providing mechanical protection to

said window.

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39-222. (Cancelled)

223. (Previously Presented) A passive infra-red detector according to claim 10 and wherein said

signal processing circuitry is operative to note a sequence of receipt of said output signals by said

at least three sub-detectors and to provide motion direction output based on said sequence.

224. (Previously Presented) A passive infra-red detector according to claim 10 and wherein said

signal processing circuitry is operative to note a sequence of receipt of said output signals by said

at least three sub-detectors and to provide motion path output information based on said

sequence.

225. (Previously Presented) A passive infra-red detector according to claim 10 and wherein said

signal processing circuitry is operative to process said output signals according to at least one

predefined criterion.

226. (Previously Presented) A passive infra-red detector according to claim 225 and wherein said

at least one predefined criterion comprises whether a time duration between receipt of said

output signals from adjacent ones of said at least three sub-detectors lies within a predetermined

range of values.

227. (Currently Amended) A passive infra-red detector according to claim 225 and wherein said

signal processing circuitry is operative to process said output signals according to said at least

one predefined criterion by noting time durations of said output signals from adjacent ones of

said at least three sub-detectors and providing said motion detection output at least when  $\underline{a}$  the

ratio between said time durations is within certain limits.

228. (Previously Presented) A passive infra-red detector according to claim 227 and wherein said

ratio is in the range of 0.5 to 2.0.

229. (Previously Presented) A passive infra-red detector according to claim 225 and wherein said

signal processing circuitry is operative to process said output signals according to said at least

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one predefined criterion by noting a time difference between receipt of said output signals and

time durations of said output signals and to provide said motion detection output in response to

receipt of said output signals from at least two adjacent ones of said at least three sub-detectors

having respective time durations and a time difference therebetween, said time durations and said

time difference therebetween having a time relationship therebetween which meets at least one

predetermined criterion.

230. (Previously Presented) A passive infra-red detector according to claim 229 and wherein said

at least one predetermined criterion comprises whether a ratio between said time difference and

at least one of said time durations lies within a predetermined range of values.

231. (Previously Presented) A passive infra-red detector according to claim 229 and wherein said

at least one predetermined criterion comprises whether ratios between said time difference and each of said time durations lie within a predetermined range of values.

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232. (Previously Presented) A passive infra-red detector according to claim 230 and wherein said

predetermined range of values is based at least in part on divergence angles of at least two zones of two different ones of said at least three sub fields-of-view corresponding to said at least two

adjacent ones of said at least three sub-detectors.

233. (Previously Presented) A passive infra-red detector according to claim 230 and wherein said

predetermined range of values is based at least in part on an angle between of at least two zones

of two different ones of said at least three sub fields-of-view corresponding to said at least two

adjacent ones of said at least three sub-detectors.

234. (Previously Presented) A passive infra-red detector according to claim 10 and wherein said

passive infra-red detector is operative to receive radiation from a field-of-view having a field-of-

view divergence angle of at least 45 degrees.

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235. (Previously Presented) A passive infra-red detector according to claim 10 and wherein at

least one of said at least three sub fields-of-view comprises a single coplanar azimuthally

distributed detection zone.

236. (Previously Presented) A passive infra-red detector according to claim 10 and wherein at

least one of said at least three sub fields-of-view comprises multiple coplanar azimuthally

distributed detection zones.

237. (Previously Presented) A passive infra-red detector according to claim 10 and wherein at

least one of said at least three sub fields-of-view comprises a single vertically distributed

detection zone.

238. (Previously Presented) A passive infra-red detector according to claim 10 and wherein at

least one of said at least three sub fields-of-view comprises multiple vertically distributed

detection zones.

239. (Previously Presented) A passive infra-red detector according to claim 10 and also

comprising a housing formed with an aperture adapted for passage therethrough of infra-red

radiation, wherein said at least three sub fields-of-view intersect generally at an intersection

region located at said aperture, and said aperture is generally equal in size to the size of said

intersection region.

240. (Previously Presented) A passive infra-red detector according to claim 239 and wherein a

window transparent to infra-red radiation is located adjacent said aperture.

241. (Previously Presented) A passive infra-red detector according to claim 240 and wherein a

center of said window is located generally at a center of said aperture.

242. (Previously Presented) A passive infra-red detector according to claim 240 and wherein said

window has a circular cross-section.

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243. (Previously Presented) A passive infra-red detector according to claim 240 and wherein said

window is generally flat.

244. (Previously Presented) A passive infra-red detector according to claim 240 and wherein said

window is formed of at least one of HDPE, Silicon and Germanium.

245. (Previously Presented) A passive infra-red detector according to claim 240 and also

comprising masking detection functionality for providing an alarm output upon detection of

masking materials obstructing said window.

246. (Previously Presented) A passive infra-red detector according to claim 240 and also

comprising a guard element surrounding said window for providing mechanical protection to

said window.

247. (Previously Presented) A passive infra-red detector according to claim 11 and wherein said

signal processing circuitry is operative to ignore said future detections only in a case where said

multiple detections fulfill predetermined pre-alarm criteria.

248. (Previously Presented) A passive infra-red detector according to claim 11 and wherein said

signal processing circuitry is operative to ignore said future detections only in a case where said

multiple detections fulfill predetermined alarm criteria.

249. (Previously Presented) A passive infra-red detector according to claim 11 and wherein said

signal processing circuitry is operative to extend said predetermined second time period in

response to detections by said one of said at least two sub-detectors during the predetermined

second time period.

250. (New) A passive infra-red detector according to claim 1 and wherein each of said at least

three sub fields-of-view include not more than three azimuthally distributed detection zones.

251. (New) A passive infra-red detector according to claim 250 and wherein said at least three

sub fields-of-view are substantially non-overlapping.